BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05)

	Description of Work	Unit	BOQ Qty	Executed Qty	Sep-20	Oct-20	Nov-20	Dec-20
	Removing and refixing stone slabs of drains and pointing in CM (1:3)(Pg no 27/5.33)	Sqm	3352.86	3352.86				
	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil involving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2018-19	Cum	2970.85	2970.85				
	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. KBS 4.1,4.2 (Page No.13, I No.4.2 of KPWD SR 2018-19)	Cum	411.35	411.35				
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor	Cum	396.50	396.50				
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page 16/4.31) of KPWD S.R 2018-19	Sqm	3506.40	3506.40				
6	KSRB 4.9.2 : Providing T.M.T Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured & paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3(P-18/4.46.2)	Tonne	20.13	20.13				
	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.20 x 0.60 x 0.10)Data rate	Sqm	2490.02	2490.02				
8	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.10)Data rate	M	95.62	95.62				
9	Removing and resetting of kerb stones. Page No. 270/ Item No.37.57/ PWD SR 2018-19	M	2262.75	2262.75				

	Description of Work	Unit	BOQ Qty	Executed Qty	Sep-20	Oct-20	Nov-20	Dec-20
	...ding and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and ...shed with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. S.29.2/ PWD SR 18-19	Nos	1716.11	1716.11				
	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19	Sqm	384.50	384.50				
12	Removing and resetting of footpath slab Page No. 270/ Item No.37.56/ PWD SR 2018-19	Sqm	1701.00	1701.00				
13	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of	Sqm	1053.00	1053.00				
14	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19	Cum	1042.38	1042.38				
15	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechalcal mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications.A. Plant Mix Method.For Grading II Material (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19	Cum	399.69	399.69				
16	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19	Cum	681.70	681.70				
17	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 161/ Item No. 21.6/ PWD SR 2018-19	Sqm	3565.80	3565.80				
18	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507 - using 100/120 TPH capacity H.M.P with sensor paver Gr-1 (80	Cum	137.80	137.80				
19	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.Page No. 158/ Item No. 21.2/ PWD SR 2018-19	Sqm	12361.70	12361.70				

	Description of Work	Unit	BOQ Qty	Executed Qty	Sep-20	Oct-20	Nov-20	Dec-20
	B 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black ed surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of surface) including cost of all materials, labour, HOM of machineries complete as per specifications. RTH/Chapter 5 Page No. 158/ Item No. 21.7/ PWD SR 2018-19	Sqm	12361.70	12361.70				
	RRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver -II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous inder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per	Cum	495.08	495.08				
	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	591.60	591.60				
23	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached	Cum	48.60	48.60				
24	KSRB 0.5-1 : Providing cement mortar (cement : sand) including cost of all materials, labour charges, HOM of complete as per specifications KSRB 0.5-1.1 do - cement mortar of mix 1:1 KBS. (P.No. 02, I.No. 1.1 of CSR 2018-19)	Cum	48.60	48.60				
25	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19	Cum	135.00	135.00				
26	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete aKSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down sizegraded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate	Cum	67.50	67.50				
27	KSRRB M600-2. Cement Concrete Pavement :- Construction of un- reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3lts conforming to IS 9103- 1999 reaffirmed 2008, (Coarse and fine aggregate conforming to IS:383) mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including	Cum	67.50	67.50				
28	Vaccum de-watering with vaccum pump and suction mat and . compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No.176, I.No. 22.7 of PWD SR 2018-19)	Sqm	348.00	348.00				
29	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3	Sqm	126.00	126.00				

Description of Work	Unit	BOQ Qty	Executed Qty	Sep-20	Oct-20	Nov-20	Dec-20
B 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates ar design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing tone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying ed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & ndem rollers to achieve the desired density, but excluding cost of primer / tack coat & including lead, lift and	Cum	40.50	40.50				

= Planned %
= Executed %